

**AMENDMENTS TO THE DRAWINGS**

The attached Replacement sheet includes changes to Fig. 1 and Fig. 2. In particular, Figs. 1-2 now include the legend "Prior Art."

**Attachment B:** Replacement sheet

### **REMARKS**

Applicant respectfully requests reconsideration and allowance of the application in view of the foregoing amendments and the below-provided remarks.

#### **Status of the Claims**

Claims 1-10 are pending in the application. Claims 1, 2, 4, 6, 7 and 10 have been amended. No new matter has been added.

Applicant appreciatively acknowledges the Examiner's indication that claims 5-9 are allowable if rewritten to be in independent form and recite the features of their base and any intervening claims.

The issues raised in the outstanding official action are addressed below in the order raised in the office action.

#### **Drawing Objections**

Objection has been made to Figs. 1-2. The attached replacement sheet adds the legend "Prior Art" to Figs. 1-2. Reconsideration and withdrawal of the objection to Figs. 1-2 is respectfully requested.

#### **Claim Objections**

Claims 4, 6 and 7 have been objected to for containing informalities. Applicant submits that appropriate amendment has been made to claims 4, 6 and 7 to address these informalities that are of a clerical nature. No new matter has been added.

The boxes in claim 4 are replaced with "<" to correct minor editorial problems. The support for the amendment can be found at page 12, lines 5-6 of the application as originally filed.

The boxes in claim 6 are replaced with "<" to correct minor editorial problems. The support of the amendment can be found at page 18, lines 10-17 of the application originally filed.

The boxes in claim 7 are replaced with “+” to correct minor editorial problems. The support for the amendment can be found at page 15, lines 4-6 of the application as originally filed.

Reconsideration and withdrawal of the objection to claims 4, 6 and 7 is respectfully requested.

**Rejections Under 35 U.S.C. § 112**

Claims 1-10 stand rejected under 35 U.S.C. § 112, second paragraph as being indefinite. Claims 1 and 2 are amended in response to Claim Rejections Under 35 U.S.C. §112, second paragraph.

In amended claim 1, “the neural network model” in line 5 is replaced with “a neural network model,” “the expected output value” in line 7 is replaced with “ an expected output value,” and “the specified criterion” in line 10 is replaced with “a specified criterion.” After the amendment, claim 1 meets the requirements of 35 USC §112.

In amended claim 2, “i.e., the actual output value of the RF power amplifier corresponding to the input signal” is deleted. After the amendment, claim 2 meets the requirements of 35 USC §112.

Consequently, Claims 3-10 meet the requirements of 35 USC §112 after the amendments of claims 1 and 2.

Reconsideration and withdrawal of the rejection of claims 1-10 under 35 U.S.C. § 112, second paragraph is respectfully requested.

**Rejections Under 35 U.S.C. § 103(a)**

Claims 1-4 stand rejected under 35 U.S.C. §103(a) as being unpatentable over non-patent literature “A Neural Network Predistorter for Nonlinear Power Amplifiers with Memory,” Hua Qian et al. , IEEE 2002 (“Hua”) in view of non-patent literature “Utilization of Neural Network Signal Processing in the Design of a Predistorter for a Nonlinear Telecommunication Channel,” Changsoo Eun et al., IEE 1994 (“Eun”). Claim 10 stands

rejected under 35 U.S.C § 103(a) as being unpatentable over Hua and Eun in further view of U.S. Patent No. 6,703,897 of O'Flaherty et al. ("O'Flaherty"). Claim 1 stands rejected under 35 U.S.C § 103(a) as being unpatentable over Hua in view of U.S. Patent No. 7,333,559 of Song et al. ("Song"). Applicant respectfully traverses these rejections.

The Hua reference appears in Digital Signal Processing Workshop, 2002 and the 2nd Signal Processing Education Workshop. Proceedings of 2002 IEEE 10th, pages 312-316. The Hua reference has a publication date of October 13-16, 2002. The present application is a national phase application of a PCT application filed on January 27, 2003, and claims priority to Chinese Patent Application CN02117283.8, filed on April 23, 2002. A proper claim of foreign priority was made concurrent with the filing of the present application, and the Examiner has acknowledged this claim and the receipt of a certified copy of the Priority Application.

As the publication date of the Hua non-patent literature is later than the April 23, 2002 date of the Priority Application for the present application, Hua does not constitute prior art under 35 U.S.C. § 102 and, thus, Hua is not available to be used as prior art under 35 U.S.C. § 103(a). In accordance with MPEP § 201.15, filed concurrently herewith is a certified literal translation of the Priority Application (**Attachment A**). Support for the present claims can be found in the certified translation of the Priority Application. Because Hua is not prior art, Applicant submits that the Examiner has not met the burden of establishing a *prima facie* case of obviousness over claims 1-4 and 10.

Reconsideration and withdrawal of the respective rejection of claims 1-4 and 10 under 35 U.S.C § 103(a) based on respective combinations of Hua, Eun, O'Flaherty, and Song is respectfully requested.

**CONCLUSION**

Applicant believes claims 1-10 are in condition for allowance. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejection.

If there are any other issues remaining which the Examiner believes could be resolved through a Supplemental Response or an Examiner's Amendment, the Examiner is respectfully requested to contact the undersigned at the telephone number indicated below.

The Commissioner is hereby authorized to charge any unpaid fees deemed required in connection with this submission or to credit any overpayment, to Deposit Account No. 04-0100.

Dated: July 16, 2009

Respectfully submitted,

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**ATTACHMENTS**